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Forward Jr., R.B., Tankersley, R.A. and Burke, J.S., Endogenous swimming rhythms of larval Atlantic menhaden, *Brevoortia tyrannus* Latrobe. Implications for vertical migration, 204 (1996) 195

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Letourneur, Y., Dynamics of fish communities on Reunion fringing reefs, Indian Ocean. II. Patterns of temporal fluctuations, 195 (1996) 31

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